



### DECLARATION

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **I/O CIRCUITRY SHARED BETWEEN PROCESSOR AND PROGRAMMABLE LOGIC PORTIONS OF AN INTEGRATED CIRCUIT** the specification of which was filed on June 12, 2001 as application no. 09/880,458.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

#### Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date
60/211,094	June 12, 2000

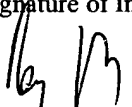


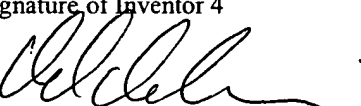
I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

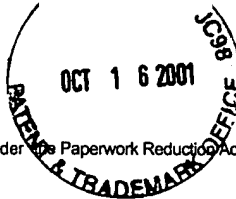
Application No.	Date of Filing	Status

Full Name of Inventor 1:	Last Name: <b>MAY</b>	First Name: <b>ROGER</b>	Middle Name or Initial:	
Residence & Citizenship:	City: <b>Bicester, Oxon</b>	State/Foreign Country: <b>United Kingdom</b>	Country of Citizenship: <b>United Kingdom</b>	
Post Office Address:	Post Office Address: <b>30 Partridge Chase</b>	City: <b>Bicester, Oxon</b>	State/Country: <b>United Kingdom</b>	Postal Code: <b>OX6 0XF</b>
Full Name of Inventor 2:	Last Name: <b>KOSTARNOV</b>	First Name: <b>IGOR</b>	Middle Name or Initial:	
Residence & Citizenship:	City: <b>Terriers, High Wycombe</b>	State/Foreign Country: <b>United Kingdom</b>	Country of Citizenship: <b>Russian Federation</b>	
Post Office Address:	Post Office Address: <b>20 Fremantle Road</b>	City: <b>Terriers, High Wycombe</b>	State/Country: <b>United Kingdom</b>	Postal Code: <b>HP13 7PQ</b>

Full Name of Inventor 3:	Last Name: <b>FLAHERTY</b>	First Name: <b>EDWARD</b>	Middle Name or Initial: <b>H.</b>	
Residence & Citizenship:	City: <b>Kingston Bagpuize, Oxon</b>	State/Foreign Country: <b>United Kingdom</b>	Country of Citizenship: <b>United States</b>	
Post Office Address:	Post Office Address: <b>Rimes Cottage</b>	City: <b>Kingston Bagpuize, Oxon</b>	State/Country: <b>United Kingdom</b>	Postal Code: <b>OX13 5AY</b>
Full Name of Inventor 4:	Last Name: <b>DICKINSON</b>	First Name: <b>MARK</b>	Middle Name or Initial:	
Residence & Citizenship:	City: <b>Brill, Bucks</b>	State/Foreign Country: <b>United Kingdom</b>	Country of Citizenship: <b>United Kingdom</b>	
Post Office Address:	Post Office Address: <b>75 Temple Street</b>	City: <b>Brill, Bucks</b>	State/Country: <b>United Kingdom</b>	Postal Code:

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1 	Signature of Inventor 2 	Signature of Inventor 3 
Roger May	Igor Kostarnov	Edward H. Flaherty
Date <b>20/8/01</b>	Date <b>28-Sep-01</b>	Date <b>28-Sept-01</b>
Signature of Inventor 4 		
Mark Dickinson		
Date <b>1.10.01</b>		



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PTO/SB/96 (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Attorney Docket No. 15114-053400US

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Roger May et al.

Application No./Patent No.: 09/880,458

Filed/Issue Date: June 12, 2001

Entitled: I/O CIRCUITRY SHARED BETWEEN PROCESSOR AND PROGRAMMABLE LOGIC PORTIONS OF AN INTEGRATED CIRCUIT

Altera Corporation, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To : \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To : \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To : \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

**[NOTE:** A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]

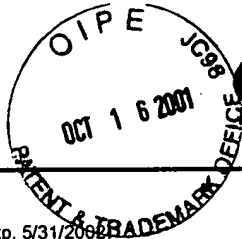
The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

10/8/01  
Date

  
Signature

C. Wendell Bergere  
Typed or printed name

General Counsel and Secretary  
Title



# COPY

Attorney Docket No. 015114-053400US

Form PTO-1595

(Rev. 03-01)

OMB No. 0651-0027 (exp. 5/31/2008)

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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof

## 1. Name of conveying party(ies):

Roger May

Additional name(s) of conveying parties attached? ☒ Yes ☐ No.

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other: \_\_\_\_\_

## 2. Name and address of receiving party(ies)

Name: Altera Corporation

Internal Address: \_\_\_\_\_

Street Address: 101 Innovation DriveCity: San JoseState: CAZIP: 95134Additional names and addresses attached? ☐ Yes ☒ NoExecution Date: 08/28/01, 08/30/01, 09/04/01, 09/29/01

## 4. Application number(s) or patent number(s).

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No(s): 09/880,458

B. Patent No(s): \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Steven Cahill  
TOWNSEND AND TOWNSEND AND CREW LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, California 94111-3834  
(415) 576-02006. Total number of applications and patents involved 17. Total fee (37 CFR 3.41): \_\_\_\_\_ \$40.00☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number: 20-1430

(Attach duplicate copy of this page if paying by deposit account)

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## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*Steven CahillName of Person Signing  
Atty. Reg. No. 44,578  
SignatureOctober 9, 2001

Date

Total number of pages including cover sheet, attachments and document 4Mail documents to be recorded with required cover to:  
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1. Additional name(s) of conveying party(ies):  
(Continued from Page 1)

Igor Kostarnov  
Edward H. Flaherty  
Mark Dickinson

2. Additional name(s) and address(es) of receiving party(ies):  
(Continued from Page 1)

3. Additional application number(s) or patent number(s):  
(Continued from Page 1)

A. Patent Application No.(s)

B. Patent No.(s)

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Attorney Docket No.: 015114-053400US  
Client Reference No.: A610

## ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, **Roger May**, of 30 Partridge Chase, Bicester, Oxon, OX6 0XF, United Kingdom; **Igor Kostarnov**, of 20 Fremantle Road, Terriers, High Wycombe, HP13 7PQ, United Kingdom; **Edward H. Flaherty**, of Rimes Cottage, Kingston Bagpuize, Oxon, OX13 5AY, United Kingdom; **Mark Dickinson**, of 75 Temple Street, Brill, Bucks, United Kingdom; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **I/O CIRCUITRY SHARED BETWEEN PROCESSOR  
AND PROGRAMMABLE LOGIC PORTIONS OF AN  
INTEGRATED CIRCUIT**

Date(s) of execution of Declaration: **September 28, 2001 and October 1, 2001**

Filing Date: **June 12, 2001**

Application No.: **09/880,458; and**

WHEREAS, **Altera Corporation**, a corporation of the state of Delaware, located at 101 Innovation Drive, San Jose, CA, 95134, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.


Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8<sup>th</sup> Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

**COPY**

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

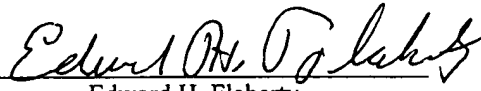
Dated: 29-06-01

  
\_\_\_\_\_  
Roger May

Dated: 30-Aug-01

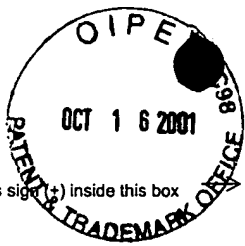
  
\_\_\_\_\_  
Igor Kostarnov

Dated: 28-Aug-01

  
\_\_\_\_\_  
Edward H. Flaherty

Dated: 4th September 2001

  
\_\_\_\_\_  
Mark Dickinson



Please type a plus sign (+) inside this box



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<b>POWER OF ATTORNEY OR AUTHORIZATION OF AGENT</b>	<b>Application Number</b>	09/880,458
	<b>Filing Date</b>	June 12, 2001
	<b>First Named Inventor</b>	Roger May et al.
	<b>Title</b>	I/O Circuitry Shared Between Processor and Programmable Logic Portions of an Integrated Circuit
	<b>Group Art Unit</b>	2182
	<b>Examiner Name</b>	Unassigned
	<b>Attorney Docket Number</b>	15114-053400US

I hereby appoint:

☒ Practitioners at Customer Number  
**OR**

26059

Place Customer  
Number Bar Code  
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☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all  
business in the United States Patent and Trademark Office connected therewith.

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Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

<b>Name</b>	C. Wendell Bergere, General Counsel and Secretary
<b>Signature</b>	<i>C. Wendell Bergere</i>
<b>Date</b>	10/6/01

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.  
Submit multiple forms if more than one signature is required, see below\*.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any  
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